

Visible adaptive optics challenges for the new THEMIS solar facility

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Summary

The THEMIS solar telescope is implementing a classical adaptive optics system operating in the visible. The Adaptive optics system is designed to operate on extended object (solar granulation) for wavefront sensing with a Strehl goal of more than 20% and shall remain stable @ $r_0 > 7\text{cm}$. The target field of view for adaptive optics correction is $\sim 10\text{-}20''$. This adaptive optics system has been integrated at CRAL and its integration to the telescope has started in June 2018. The next phases of telescope performance testing and optimization have already started. This talk will present the design parameters, expected performances of the adaptive optics system, the lab integration results as well as preliminary on sky commissioning data.

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